

IN THE CLAIMS:

Please AMEND claims 1 and 12, and ADD claim 24-27, as follows:

1. (CURRENTLY AMENDED) A phosphor comprising:

a perovskite structure; and

samarium (Sm)at least partially replacing an element on one of vertices of the perovskite structure,

wherein said perovskite structure comprises $MTiO_3 : (A, B)$, where M is an alkali earth metal, A is an element selected from the group consisting of cerium (Ce), praseodymium (Pr), europium (Eu), terbium (Tb), and thulium (Tm), and B is a Group IIIA element of the periodic table.

2. (ORIGINAL) The phosphor of claim 1, wherein the alkali earth metal is an element selected from the group consisting of magnesium (Mg), strontium (Sr), calcium (Ca), and barium (Ba).

3. (ORIGINAL) The phosphor of claim 1, wherein the element A is added in an amount of 0.05-5 mol% based on 1 mole of the Ti.

4. (ORIGINAL) The phosphor of claim 1, wherein the Group IIIA element is an element selected from the group consisting of aluminum (Al), gallium (Ga), indium (In), and thallium (Tl).

5. (ORIGINAL) The phosphor of claim 1, wherein the Group IIIA element is added in an amount of 0.05-80 mol% based on 1 mol of the Ti.

6. (ORIGINAL) The phosphor of claim 1, wherein the amount of said Sm is in a range of 0.0001-0.05 mol% based on 1 mol of the Ti.

7. (ORIGINAL) The phosphor of claim 1, wherein an amount of said Sm is such that a luminescence of the phosphor at 1000 hours of usage is at least 40% of an initial luminescence.

8. (ORIGINAL) The phosphor of claim 7, wherein the amount is such that the luminescence at 1000 hours of usage is at least 70% of the initial luminescence.

9. (ORIGINAL) The phosphor of claim 1, wherein an amount of said Sm is such that an initial luminescence is at least 65 Cd/m².

10. (ORIGINAL) The phosphor of claim 7, wherein the amount is such that the initial luminescence is at least 65 Cd/m².

11. (ORIGINAL) The phosphor of claim 7, wherein the amount is such that a luminescence at 600 hours of usage is at least 60% of the initial luminescence.

12. (CURRENTLY AMENDED) A phosphor comprising:

a perovskite structure; and

samarium (Sm) at least partially replacing an element on one of vertices of the perovskite structure,

wherein an amount of said Sm is such that a luminescence of the phosphor at 1000 hours of usage is at least 40% of an initial luminescence.

13. (ORIGINAL) The phosphor of claim 12, wherein the amount is such that the luminescence at 1000 hours of usage is at least 70% of the initial luminescence.

14. (ORIGINAL) The phosphor of claim 12, wherein the amount is such that the initial luminescence is at least 65 Cd/m².

15. (ORIGINAL) The phosphor of claim 13, wherein the amount is such that the initial luminescence is at least 65 Cd/m².

16. (ORIGINAL) The phosphor of claim 12, wherein the amount is such that a luminescence at 600 hours of usage is at least 60% of the initial luminescence.

17. (ORIGINAL) The phosphor of claim 12, wherein said perovskite structure comprises $MTiO_3 : (A, B)$, where M is an alkali earth metal, A is an element selected from the group consisting of cerium (Ce), praseodymium (Pr), europium (Eu), terbium (Tb), and thulium (Tm), and B is a Group IIIA element of the periodic table.

18. (ORIGINAL) The phosphor of claim 17, wherein the amount of said Sm is at least 0.0001 mol% based on 1 mol of the Ti.

19. (ORIGINAL) The phosphor of claim 18, wherein the amount of said Sm is less than .05 based on 1 mol of the Ti.

20. (ORIGINAL) The phosphor of claim 17, wherein the amount of said Sm is roughly at or between .002 and .02 mol% based on 1 mol of the Ti.

21. (ORIGINAL) A fluorescent display device comprising the phosphor according to claim 1.

22. (ORIGINAL) The fluorescent display device of claim 21, wherein the fluorescent display device is one of a field emission display and a vacuum fluorescent display.

23. (PREVIOUSLY PRESENTED) A fluorescent display device comprising the phosphor according to claim 12.

24. (NEW) A phosphor comprising:

a perovskite structure; and

samarium (Sm) at least partially replacing an element on one of vertices of the perovskite structure,

wherein:

 said perovskite structure comprises $MTiO_3 : (A, B)$, where M is an alkali earth metal, A is an element selected from the group consisting of cerium (Ce), praseodymium (Pr), europium (Eu), terbium (Tb), and thulium (Tm), and B is a Group IIIA element of the periodic table, and

 an amount of said Sm is at least 0.0001 mol% based on 1 mol of the Ti.

25. (NEW) The phosphor of claim 24, wherein the amount of said Sm is less than .05 based on 1 mol of the Ti.

26. (NEW) The phosphor of claim 24, wherein the amount of said Sm is roughly at or between .002 and .02 mol% based on 1 mol of the Ti.

27. (NEW) The phosphor of claim 24, wherein the phosphor is produced by mixing the samarium (Sm) or a compound containing the Sm, the titanium (Ti) or a compound containing the Ti, the alkali earth metal or a compound containing the alkali earth metal, and the element selected from the group consisting of cerium (Ce), praseodymium (Pr), europium (Eu), terbium (Tb), and thulium (Tm), and a Group IIIA element of the periodic table or a compound containing the element to obtain a resultant mixture; sintering the resultant mixture to form the perovskite structure containing the Sm and where the perovskite structure comprises the $MTiO_3 : (A, B)$.